



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : William Stuart Somers et al      Art Unit : 1645  
Serial No. : 09/859,722      Examiner : Unknown  
Filed : May 17, 2001  
Title : CRYSTAL STRUCTURE OF P-SELECTIN, P- AND E-SELECTIN  
COMPLEXES, AND USES THEREOF

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b) GENETICS INSTITUTE, LLC, certifies that it is the assignee of 100% of the right, title and interest in the patent application identified above by virtue of:

☒ Assignments from the inventors of the patent application identified above, to Genetics Institute, Inc. as indicated below. On January 1, 2002, Genetics Institute, Inc. was converted to a limited liability company and changed its name to Genetics Institute, LLC, said change was recorded in the United States Patent and Trademark Office at Reel 012772, Frame 0631 on March 29, 2002. Copies of the assignments are attached.

1. From William Stuart Somers and Jin Tang to Genetics Institute, Inc. recorded in the Patent and Trademark Office at Reel 012237, Frame 0480 on October 5, 2001.
2. From Raymond Camphausen to Genetics Institute, Inc. recorded in the Patent and Trademark Office at Reel 012238, Frame 0246 on October 5, 2001.
3. From Jasbir Seehra to Genetics Institute, Inc. recorded in the Patent and Trademark Office at Reel 012237, Frame 0494 on October 5, 2001.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints:

Applicant : William Stuart Somers et al  
Serial No. : 09/859,722  
Filed : May 17, 2001  
Page : 2 of 2

Attorney's Docket No.: 16163-004001 / AM100225

Elizabeth M. Barnard, Reg. No. 31,088  
Rebecca R. Barrett, Reg. No. 35,152  
Christine P. Bellon, Reg. No. 41,611  
Gavin T. Bogle\*  
Diana M. Collazo, Reg. No. 46,635  
Sean P. Daley, Reg. No. 40,978  
Harold H. Fox, Reg. No. 41,498  
John J. Gagel, Reg. No. 33,499  
John F. Hayden, Reg. No. 37,640  
Elizabeth A. Hurley, Reg. No. 41,859  
David A. Manspeizer, Reg. No. 37,540  
Gale F. Matthews, Reg. No. 32,269

Arnold S. Milowsky, Reg. No. 35,288  
Louis Myers, Reg. No. 35,965  
Robert C. Nabinger, Reg. No. 33,431  
Michael R. Nagy, Reg. No. 33,432  
Tu N. Nguyen, Reg. No. 42,934  
M. Andrea Ryan, Reg. No. 28,469  
Leda I. Trivinos, Reg. No. 50,635  
Albert R. Ubieta, Reg. No. 43,212  
Wendy S. Vincente, Reg. No. 45,496  
Darryl L. Webster, Reg. No. 34,276  
Dorothy P. Whelan, Reg. No. 33,814

\*Limited Recognition Under 37 C.F.R. § 10.9(b)

with full power of substitution and revocation, to prosecute the application and to transact all business in the United States Patent and Trademark Office connected therewith.

All correspondence regarding the application should be sent to:

**PTO Customer Number: 26171**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

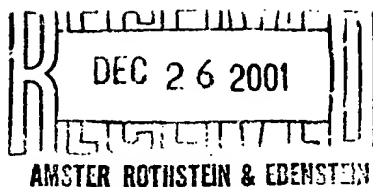
Respectfully submitted,

Date: 10/13/03

M. Andrea Ryan  
M. ANDREA RYAN

Title: Assistant Secretary  
On behalf of Genetics Institute, LLC

Fish & Richardson P.C.  
1425 K Street, N.W.  
11th Floor  
Washington, DC 20005-3500  
Telephone: (202) 783-5070  
Facsimile: (202) 783-2331



DECEMBER 17, 2001

PTAS

AMSTER, ROTHSTEIN & EBENSTEIN  
CRAIG J. ARNOLD, ESQ.  
90 PARK AVENUE  
NEW YORK, NY 10016

Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
www.uspto.gov



\*101873902A\*

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/05/2001

REEL/FRAME: 012237/0480  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SOMERS, WILLIAM STUART

DOC DATE: 08/31/2001

ASSIGNOR:

TANG, JIN

DOC DATE: 08/15/2001

ASSIGNEE:

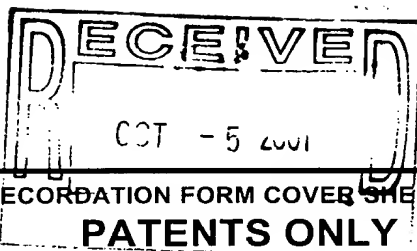
GENETICS INSTITUTE, INC.  
87 CAMBRIDGE PARK DRIVE  
CAMBRIDGE, MASSACHUSETTS 02140

SERIAL NUMBER: 09859722  
PATENT NUMBER:

FILING DATE: 05/17/2001  
ISSUE DATE:

SHAREILL COLES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

DOCKETED	12/28/01 PR
CLIENT	2368/24
DUE DATE	



10-16-2001



101873902

Form PTO-1595  
(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

William Stuart Somers  
Jin Tang

10.5.01

## 2. Name and address of receiving party(ies)

Name: Genetics Institute, Inc.

Internal Address: \_\_\_\_\_

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other \_\_\_\_\_Street Address: 87 Cambridge Park DriveCity: Cambridge State: MA Zip: 02140Execution Date: August 31, 2001; August 15, 2001Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
09/859,722

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Craig J. Arnold, Esq.Internal Address: Amster, Rothstein & EbensteinStreet Address: 90 Park AvenueCity: New York State: NY Zip: 100166. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number:

01-1785

(Attach duplicate copy of this page if paying by deposit account)

## DO NOT USE THIS SPACE

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Craig J. Arnold, Reg. No. 34,287

Name of Person Signing

Craig J. Arnold  
SignatureOctober 2, 2001

Date

Total number of pages including cover sheet, attachments, and documents: 5Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

/15/2001 GT0N11 00000150 09859722

FC:581

40.00 OP

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of good and valuable consideration, the receipt of which is hereby acknowledged,

ASSIGNORS:

(1) Full Name of Inventor: William Stuart Somers  
Residence: 20 Mead Street - #2, Cambridge, MA 02140  
Citizenship: UK

---

(2) Full Name of Inventor: Jin Tang  
Residence: 308 Pleasant Street, Canton, MA 02021  
Citizenship: US

---

(3) Full Name of Inventor: Raymond Camphausen  
Residence: 65 Hillsdale Road, Arlington, MA 02476  
Citizenship: US

---

(4) Full Name of Inventor: Jasbir Seehra  
Residence: 139 Shade Street, Lexington, MA 02421  
Citizenship: UK

---

hereby sell, assign, and transfer to ASSIGNEE:

Genetics Institute, Inc.  
87 Cambridge Park Drive  
Cambridge, MA 02140

and the successors, assigns, and legal representatives of the ASSIGNEE, the entire right, title, and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority, in and to the invention entitled:

CRYSTAL STRUCTURES OF P- SELECTIN, P- AND E-SELECTIN  
COMPLEXES, AND USES THEREOF

that was invented by ASSIGNORS, and which is found in U.S. application Serial No. 09/859,722, filed on May 17, 2001, and any legal equivalent thereof in a foreign country, including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application, or any continuation, division, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement, or encumbrance has been, or will be, made or entered into which would conflict with this Assignment.


ASSIGNORS authorize ASSIGNEE to make applications for, and to receive, Letters Patent for said invention in any of said countries, in ASSIGNEE's name, or in ASSIGNORS' names, at ASSIGNEE's election.

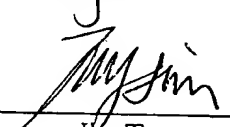
ASSIGNORS covenant and agree to execute or procure any further necessary assurance of the title to said invention, and any Letters Patent which may issue therefor, and to, at any time, upon the request and at the expense of ASSIGNEE, deliver any testimony in any interference, litigation, or proceeding related thereto, and to execute all papers that may be necessary or desirable to perfect the title to said invention, or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and to, at any time, upon the request and at the expense of ASSIGNEE, execute any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and, as to Letters Patent, and reissue or re-examination thereof, or any other additional applications for Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing

thereon are hereby assigned to ASSIGNEE, will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns, or other legal representatives.

ASSIGNORS authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications, to said Genetics Institute, Inc. as their ASSIGNEE.

WITNESS our hands and seals this 31<sup>st</sup> day of August, 2001.

  
\_\_\_\_\_  
William Stuart Somers

  
\_\_\_\_\_  
Jin Tang

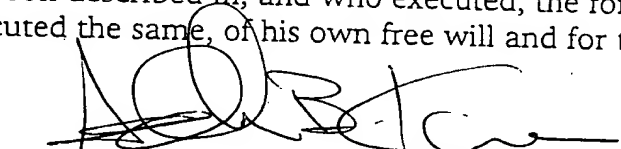
\_\_\_\_\_  
Raymond Camphausen

\_\_\_\_\_  
Jasbir Seehra

ACKNOWLEDGMENT

State of Massachusetts }  
County of Middlesex } ss:

On the 31 day of August, 2001, William Stuart Somers personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

  
\_\_\_\_\_  
Notary Public

**ARADHANA B. KUMAR**  
Notary Public  
My Commission Expires  
April 25, 2008

Sabiele M. Vogt  
Notary Public

State of Massachusetts }  
County of Middlesex } ss:  
}

Notary Public

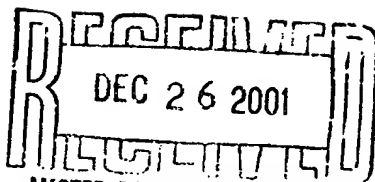
State of            Massachusetts            }  
County of        Middlesex                        } ss:

Notary Public





UNITED STATES  
PATENT AND  
TRADEMARK OFFICE  
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DECEMBER 17, 2001

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AMSTER, ROTHSTEIN & EBENSTEIN  
CARIG J. ARNOLD, ESQ.  
90 PARK AVENUE  
NEW YORK, NY 10016

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RECORDATION DATE: 10/05/2001

REEL/FRAME: 012238/0246  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CAMPHAUSEN, RAYMOND

DOC DATE: 08/30/2001

ASSIGNEE:

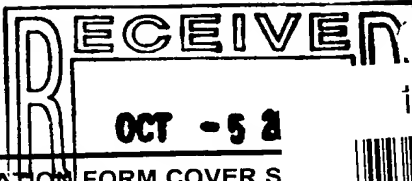
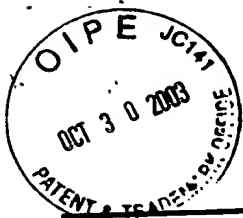
GENETICS INSTITUTE, INC.  
87 CAMBRIDGE PARK DRIVE  
CAMBRIDGE, MASSACHUSETTS 02140

SERIAL NUMBER: 09859722  
PATENT NUMBER:

FILING DATE: 05/17/2001  
ISSUE DATE:

PAULA MCCRAY, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

DOCKETED	12/28/01 AR
CLIENT	2368/24
DUE DATE	



10-16-2001



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(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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RECORDATION FORM COVER S  
PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Raymond Camphausen

10-5-01

## 2. Name and address of receiving party(ies)

Name: Genetics Institute, Inc.

Internal Address: \_\_\_\_\_

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other \_\_\_\_\_Street Address: 87 Cambridge Park DriveCity: Cambridge State: MA Zip: 02140Execution Date: August 30, 2001Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
09/859,722

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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## 8. Deposit account number:

01-1785

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## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Craig J. Arnold, Reg. No. 34,287

Name of Person Signing

Signature

October 2, 2001

Date

Total number of pages including cover sheet, attachments, and documents: 5Mail documents to be recorded with required cover sheet information to:  
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10/15/2001 GTON11 00000149 09859722

01 FC:581

40.00 DP

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of good and valuable consideration, the receipt of which is hereby acknowledged,

ASSIGNORS:

(1) Full Name of Inventor: William Stuart Somers  
Residence: 20 Mead Street - #2, Cambridge, MA 02140  
Citizenship: UK

---

(2) Full Name of Inventor: Jin Tang  
Residence: 308 Pleasant Street, Canton, MA 02021  
Citizenship: US

---

(3) Full Name of Inventor: Raymond Camphausen  
Residence: 65 Hillsdale Road, Arlington, MA 02476  
Citizenship: US

---

(4) Full Name of Inventor: Jasbir Seehra  
Residence: 139 Shade Street, Lexington, MA 02421  
Citizenship: UK

---

hereby sell, assign, and transfer to ASSIGNEE:

Genetics Institute, Inc.  
87 Cambridge Park Drive  
Cambridge, MA 02140

and the successors, assigns, and legal representatives of the ASSIGNEE, the entire right, title, and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority, in and to the invention entitled:

CRYSTAL STRUCTURES OF P- SELECTIN, P- AND E-SELECTIN  
COMPLEXES, AND USES THEREOF

that was invented by ASSIGNORS, and which is found in U.S. application Serial No. 09/859,722, filed on May 17, 2001, and any legal equivalent thereof in a foreign country, including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application, or any continuation, division, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement, or encumbrance has been, or will be, made or entered into which would conflict with this Assignment.

ASSIGNORS authorize ASSIGNEE to make applications for, and to receive, Letters Patent for said invention in any of said countries, in ASSIGNEE's name, or in ASSIGNORS' names, at ASSIGNEE's election.

ASSIGNORS covenant and agree to execute or procure any further necessary assurance of the title to said invention, and any Letters Patent which may issue therefor, and to, at any time, upon the request and at the expense of ASSIGNEE, deliver any testimony in any interference, litigation, or proceeding related thereto, and to execute all papers that may be necessary or desirable to perfect the title to said invention, or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and to, at any time, upon the request and at the expense of ASSIGNEE, execute any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and, as to Letters Patent, and reissue or re-examination thereof, or any other additional applications for Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing

thereon are hereby assigned to ASSIGNEE, will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns, or other legal representatives.

ASSIGNORS authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications, to said Genetics Institute, Inc. as their ASSIGNEE.

WITNESS our hands and seals this 30<sup>th</sup> day of August, 2001.

\_\_\_\_\_  
William Stuart Somers

\_\_\_\_\_  
Raymond Camphausen

\_\_\_\_\_  
Jim Tang

\_\_\_\_\_  
Jasbir Seehra

ACKNOWLEDGMENT

State of Massachusetts }  
County of Middlesex } ss:

On the 30<sup>th</sup> day of August, 2001, William Stuart Somers personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

\_\_\_\_\_  
ARADHANA B. KUMAR  
Notary Public  
My Commission Expires  
April 25, 2008  
Notary Public

State of Massachusetts }  
County of Middlesex } SS:


On the 15<sup>th</sup> day of August, 2001, Jin Tang personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Sabiele M. Vogt  
Notary Public

State of Massachusetts }  
County of Middlesex } ss: }

On the 30 day of August, 2001, Raymond Camphausen personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

he executed the same, of his own free will

  
ARADHANA B. KUMAR  
Notary Public  
My Commission Expires  
April 25, 2008

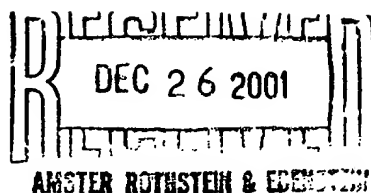
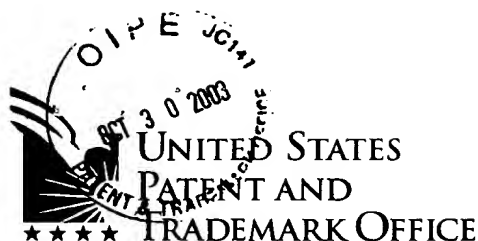
Notary Public

State of            Massachusetts         }

County of      Middlesex                } ss:

On the \_\_\_\_ day of \_\_\_\_\_, 2001, Jasbir Seehra personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Notary Public



DECEMBER 17, 2001

PTAS

Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
www.uspto.gov

AMSTER, ROTHSTEIN ET AL  
CRAIG J. ARNOLD  
90 PARK AVENUE  
NEW YORK, NY 10016



\*101873901A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
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CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.  
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,  
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/05/2001

REEL/FRAME: 012237/0494  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SEEHRA, JASBIR

DOC DATE: 08/31/2001

ASSIGNEE:

GENETICS INSTITUTE, INC.  
87 CAMBRIDGE PARK DRIVE  
CAMBRIDGE, MASSACHUSETTS 02140

SERIAL NUMBER: 09859722  
PATENT NUMBER:

FILING DATE: 05/17/2001  
ISSUE DATE:

STEVEN POST, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

DOCKETED	12/28/01
CLIENT	2368/24
DUE DATE	



10-16-2001



101873901

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(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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RECORDATION FORM COVER SHEET  
PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Jasbir Seehra

10-5-01

2. Name and address of receiving party(ies)

Name: Genetics Institute, Inc.

Internal Address: \_\_\_\_\_

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Street Address: 87 Cambridge Park DriveCity: Cambridge State: MA Zip: 02140Execution Date: August 31, 2001Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
09/859,722

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Craig J. Arnold, Esq.Internal Address: Amster, Rothstein & EbensteinStreet Address: 90 Park AvenueCity: New York State: NY Zip: 100166. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Craig J. Arnold, Reg. No. 34,287

Name of Person Signing

Signature

October 2, 2001

Date

Total number of pages including cover sheet, attachments, and documents: 5

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ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of good and valuable consideration, the receipt of which is hereby acknowledged,

ASSIGNORS:

(1) Full Name of Inventor: William Stuart Somers  
Residence: 20 Mead Street - #2, Cambridge, MA 02140  
Citizenship: UK

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(2) Full Name of Inventor: Jin Tang  
Residence: 308 Pleasant Street, Canton, MA 02021  
Citizenship: US

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(3) Full Name of Inventor: Raymond Camphausen  
Residence: 65 Hillsdale Road, Arlington, MA 02476  
Citizenship: US

---

(4) Full Name of Inventor: Jasbir Seehra  
Residence: 139 Shade Street, Lexington, MA 02421  
Citizenship: UK

---

hereby sell, assign, and transfer to ASSIGNEE:

Genetics Institute, Inc.  
87 Cambridge Park Drive  
Cambridge, MA 02140

and the successors, assigns, and legal representatives of the ASSIGNEE, the entire right, title, and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority, in and to the invention entitled:

CRYSTAL STRUCTURES OF P- SELECTIN, P- AND E-SELECTIN  
COMPLEXES, AND USES THEREOF

that was invented by ASSIGNORS, and which is found in U.S. application Serial No. 09/859,722, filed on May 17, 2001, and any legal equivalent thereof in a foreign country, including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application, or any continuation, division, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement, or encumbrance has been, or will be, made or entered into which would conflict with this Assignment.

ASSIGNORS authorize ASSIGNEE to make applications for, and to receive, Letters Patent for said invention in any of said countries, in ASSIGNEE's name, or in ASSIGNORS' names, at ASSIGNEE's election.

ASSIGNORS covenant and agree to execute or procure any further necessary assurance of the title to said invention, and any Letters Patent which may issue therefor, and to, at any time, upon the request and at the expense of ASSIGNEE, deliver any testimony in any interference, litigation, or proceeding related thereto, and to execute all papers that may be necessary or desirable to perfect the title to said invention, or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and to, at any time, upon the request and at the expense of ASSIGNEE, execute any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and, as to Letters Patent, and reissue or re-examination thereof, or any other additional applications for Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing

thereon are hereby assigned to ASSIGNEE, will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns, or other legal representatives.

ASSIGNORS authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications, to said Genetics Institute, Inc. as their ASSIGNEE.

WITNESS our hands and seals this 31 day of August, 2001.

\_\_\_\_\_  
William Stuart Somers

Jin Tang  
Jin Tang

\_\_\_\_\_  
Raymond Camphausen

Jasbir Seehra  
Jasbir Seehra

ACKNOWLEDGMENT

State of Massachusetts }  
County of Middlesex } ss:

On the \_\_\_\_ day of \_\_\_\_\_, 2001, William Stuart Somers personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

\_\_\_\_\_  
Notary Public

State of Massachusetts }  
County of Middlesex }  
SS:

On the 15<sup>th</sup> day of August, 2001, Jin Tang personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Gabriele M. Vogt  
Notary Public

State of Massachusetts }  
County of Middlesex }  
SS:

On the \_\_\_\_ day of \_\_\_\_\_, 2001, Raymond Camphausen personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

\_\_\_\_\_  
Notary Public

State of Massachusetts }  
County of Middlesex }  
SS:

On the 31 day of August, 2001, Jasbir Seehra personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Aradhana B. Kumar  
Notary Public

ARADHANA B. KUMAR  
Notary Public  
My Commission Expires  
April 25, 2008